



CURRENT FISHERIES STATISTICS NO. 7802

Industrial Fishery Products, Annual Summary 1978

CONTENTS

FEB 28 1980

	Page
Narrative review	2
Summary of production, by products	3
Value of production, by States and plant count	3
Production of industrial fishery products:	
Marine animal scrap and meal	4
Marine animal oil	4
Fish solubles	4
Menhaden products	5
Oyster shell products	5
Miscellaneous industrial fishery products	5
Number of plants producing industrial fishery products, by type of product	6
Production of industrial fishery products, 1966-78	7

Source of data:--Since 1921, the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration and its predecessor organizations have made annual surveys for statistics on the domestic production of industrial fishery products. The data collected include statistics on the production and value of each commodity. The value shown for the products constitutes the gross amount received by the producer at the production point; no deductions are made for commissions or expenses.

December 14, 1979

 Washington, D.C. 20235
 202-634-7366

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATIONNATIONAL MARINE
FISHERIES SERVICE

REVIEW

The value of industrial fishery products produced in the United States, American Samoa, and Puerto Rico in 1978 was \$250.9 million – \$60.3 million more than in 1977. In terms of value, the leading producing States were Louisiana (\$107.4 million), Maine (\$32.5 million), Virginia (\$24.4 million), and Mississippi (\$22.6 million). These values are based on the selling price at the producing plants.

Fish meal and scrap. Domestic production, including shellfish meal, was a record 362,910 tons valued at \$121.2 million in 1978 – 80,619 tons and \$24.0 million more than the 1977 production. Menhaden meal production of 276,546 short tons and \$96.6 million set a record in 1978 and accounted for 76 percent of the total production and 80 percent of the value. Meal from tuna and mackerel also set a new record in 1978 when 50,602 short tons valued at \$14.4 million were produced – 11,374 short tons and \$3.9 million more than the 1977 production. Anchovy meal declined drastically from 19,000 short tons in 1977 to just over 2,000 short tons in 1978. This decline can be attributed to a sharp decline in the landings of anchovies. Meal from alewives, thread herring, and unclassified fish was 24,488 short tons in 1978 – 2,834 tons more than the production in 1977. The shellfish meal production of 9,197 short tons was 273 tons less the 1977 production. Shellfish meal produced from blue crabs and shrimp was 6,187 short tons, and 1,408 short tons, respectively, 442 short tons and 481 short tons more than the 1977 production. Mixed shellfish declined in 1978 by 996 short tons, from the 2,598 produced in 1977.

Fish oil. The domestic production of fish oil was 296.3 million pounds valued at \$60.7 million in 1978 – 163.1 million pounds and \$32.5 million more than in 1977. This production, which was the second highest on record, fell short of the record 299.3 million pounds produced in 1936 by 3.0 million pounds. The 1978 production of menhaden oil of 284.0 million pounds set a new record, and represented 96 percent of fish oil production. Production of tuna and mackerel oil increased, but anchovy oil production declined to 787,000 pounds compared with 6.2 million pounds a year earlier.

Fish solubles. Domestic production in 1978 of fish solubles was 162,543 short tons – 40,213 short tons more than in 1977. Menhaden solubles contributed over 81 percent of the total production. The 132,007 short tons of menhaden solubles produced set a new record in 1978, and was 23,928 short tons more than the previous record year of 1959, when 108,079 short tons were produced.

Other products. Oyster shell products (grit and lime) were valued at \$4.5 million in 1978, compared with \$6.7 million in 1977. The value of the production of other industrial products was \$42.2 million, a decline of \$2.2 million when compared with 1977. These other industrial products include animal feeds and pellets, clam and crab shells (processed for food serving), Irish moss extracts, kelp products, shark leathers, liquid fertilizer, marine pearl shell buttons, pearl essence, and miscellaneous products.

SUMMARY OF PRODUCTION, BY PRODUCTS, 1978

Product	Plants	Unit	Quantity	Dollars
	Number		-----Thousands-----	
Fish and shellfish meal	74	Tons	363	121,207
Fish body oils	40	Pounds	296,287	60,701
Fish solubles	25	Tons	163	22,303
Oyster shell grit and lime ("live and reef shells")	5	Tons	142	4,465
Miscellaneous industrial products	43	-	-	42,247
Total	(1) 125	-	-	250,923

(1) Exclusive of duplication.

VALUE OF PRODUCTION BY STATE AND PLANT COUNT, 1978

State	Thousand dollars
Maine (7)	32,537
Massachusetts (3) and Rhode Island (1)	5,320
New York (3) and Pennsylvania (1)	129
New Jersey (4)	4,771
Maryland (5)	2,136
Virginia (6)	24,383
North Carolina (15)	13,129
Alabama (1), Georgia (2), and Texas (1)	2,883
Florida (3)	784
Mississippi (4)	22,590
Louisiana (25)	107,386
Alaska (3)	878
Washington (13)	4,969
Oregon (3)	420
California (13)	19,997
Iowa (1), Minnesota (1), Utah (1), and Wisconsin (2)	2,120
American Samoa (2), Hawaii (1), and Puerto Rico (4)	6,491
Total (125)	250,923

PRODUCTION OF MARINE ANIMAL MEAL AND SCRAP, 1978

Product	Atlantic and Gulf Coasts		American Samoa, Pacific Coast, and Puerto Rico		Total	
	Tons	Dollars	Tons	Dollars	Tons	Dollars
-----Thousands-----						
Dried scrap and meal:						
Fish:						
Anchovy	-	-	2	650	2	650
Herring, sea	(1) 3	(1) 1,105	-	-	3	1,105
Menhaden	277	96,643	-	-	277	96,643
Tuna and mackerel	-	-	51	14,444	51	14,444
Unclassified	(2) 15	(2) 5,442	6	1,927	21	7,369
Total	295	103,190	59	17,021	354	120,211
Shellfish:						
Crabs, blue	6	675	-	-	6	675
Shrimp	(1) 1	(1) 130	-	-	1	130
Unclassified	-	-	2	191	2	191
Total	7	805	2	191	9	996
Grand total	302	103,995	61	17,212	363	121,207

(1) Includes production on the Pacific Coast. (2) Includes production in the Inland Areas.

PRODUCTION OF MARINE ANIMAL OIL, 1978

Product	Atlantic and Gulf Coasts		Pacific Coast and Puerto Rico		Total	
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars
-----Thousands-----						
Fish oils:						
Anchovy	-	-	787	95	787	95
Herring, sea	(1) 1,341	(1) 258	-	-	1,341	258
Menhaden	284,031	58,711	-	-	284,031	58,711
Tuna and mackerel	-	-	4,358	455	4,358	455
Unclassified	(2) 4,145	(2) 879	(2) 1,625	(2) 303	5,770	1,182
Total	289,517	59,848	6,770	853	296,287	60,701

(1) Includes production on the Pacific Coast. (2) Includes production in the Inland Areas, and a small production of liver oils.

PRODUCTION OF FISH SOLUBLES, 1978

Production, State, and number of plants	Tons	Dollars
-----Thousands-----		
Menhaden:		
New Jersey (1) and Virginia (2)	48	5,469
Florida East Coast (1) and North Carolina (3)	15	3,816
Louisiana (7) and Mississippi (2)	69	9,814
Total (16)	132	19,099
Unclassified:		
California (5), Hawaii (1), Massachusetts (1), Oregon (1), Puerto Rico (1), and Virginia (1)	31	3,204
Grand total (1) (25)	163	22,303

(1) Exclusive of duplication.

PRODUCTION OF MENHADEN PRODUCTS, 1978

State and number of plants	Dried scrap meal		Oil		Solubles		Total
	Tons	Dollars	Pounds	Dollars	Tons	Dollars	Dollars
	-----Thousands-----						
Maine (2) and Massachusetts (1)	7	2,521	7,158	1,370	-	-	3,891
New Jersey (1) and Virginia (2)	48	16,781	27,979	5,235	48	5,469	27,485
Florida East Coast (1) and North Carolina (4)	24	8,656	4,564	707	15	3,816	13,179
Mississippi (3)	34	11,587	45,980	9,426	(1)	(1)	21,013
Louisiana (8)	164	57,098	198,350	41,973	69	9,814	108,885
Total (22)	277	96,643	284,031	58,711	132	19,099	174,453

PRODUCTION OF OYSTER SHELL PRODUCTS, 1978
("Live and reef shells")

State and number of plants	Poultry grit		Lime, burned and unburned		Total	
	Tons	Dollars	Tons	Dollars	Tons	Dollars
	-----Thousands-----					
Alabama (1), Maryland (1), Pennsylvania (1), Texas (1), and Virginia (1)	142	4,465	(1)	(1)	142	4,65

(1) The production of oyster shell lime has been included with poultry grit.

PRODUCTION OF MISCELLANEOUS INDUSTRIAL FISHERY PRODUCTS, 1978

Product	State and number of plants	Thousand dollars
Animal feeds and fish pellets	California (2), Maryland (1), Minnesota (1), New York (2), North Carolina (5), Oregon (2), Rhode Island (1), Utah (1), Washington (8), and Wisconsin (1)	} 42,247
Clam and crab shells (processed for food serving)	Florida (1), Mississippi (1), and North Carolina (2)	
Irish moss products	Maine (2) and Massachusetts (1)	
Kelp products	California (2)	
Leather products (shark)	New Jersey (1)	
Liquid fertilizer	California (1)	
Marine pearl shell buttons	Maryland (1) and New Jersey (2)	
Pearl essence	Maine (3)	
Unclassified crab products and fish protein concentrate	Massachusetts (1) and Washington (1)	

NUMBER OF PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, BY TYPE PRODUCT, 1978

Product	Atlantic and Gulf Coasts (1)	Pacific Coast (2)	Total
	-----Number-----		
Scrap and meal, dried:			
Alewife	3	-	3
Anchovy	-	6	6
Carp	1	-	1
Crab	14	3	17
Herring:			
Sea	2	1	3
Thread	2	-	2
Menhaden	22	-	22
Shrimp	17	2	19
Tuna and mackerel	-	13	13
Unclassified	6	6	12
Oil:			
Alewife	2	-	2
Anchovy	-	6	6
Carp	1	-	1
Herring:			
Sea	2	1	3
Thread	2	-	2
Menhaden	22	-	22
Tuna and mackerel	-	8	8
Unclassified:			
Liver	1	1	2
Body	4	5	9
Shell products:			
Clam shells processed for food serving	2	-	2
Crab shells processed for food serving	2	-	2
Marine pearl shell buttons	3	-	3
Oyster shell:			
Crushed for poultry feed	4	-	4
Lime (burned and unburned)	2	-	2
Seaweed products:			
Irish moss	3	-	3
Kelp products	-	2	2
Miscellaneous:			
Animal feeds and fish pellets	12	12	24
Fish protein concentrate	1	-	1
Fish solubles	17	8	25
Liquid fertilizer	-	1	1
Pearl essence	3	-	3
Shark leather	1	-	1
Unclassified crab products	-	1	1
Total, exclusive of duplication	86	39	125

(1) Includes firms in the Inland States. (2) Includes Puerto Rico and American Samoa.

PRODUCTION OF INDUSTRIAL FISHERY PRODUCTS, 1966-1978

Year	Menhaden, dried scrap and meal		Herring meal		Tuna and mackerel meal	
	Tons	Thousand dollars	Tons	Thousand dollars	Tons	Thousand dollars
1966.....	134,954	20,539	11,860	1,971	25,290	3,199
1967.....	119,135	15,265	9,492	1,328	25,487	2,758
1968.....	143,154	19,534	15,411	2,128	28,781	2,955
1969.....	159,493	26,960	6,563	1,045	26,870	3,239
1970.....	188,550	34,658	6,415	1,175	26,674	3,753
1971.....	220,996	34,953	5,189	860	29,287	3,706
1972.....	193,580	35,294	5,487	1,162	43,226	5,484
1973.....	188,786	84,893	4,457	1,978	43,635	13,243
1974.....	203,859	60,369	3,191	1,268	48,244	11,603
1975.....	191,443	45,993	3,581	1,074	37,209	6,384
1976.....	212,553	72,746	4,338	1,620	40,059	8,820
1977.....	193,268	71,785	2,294	803	39,228	10,544
1978.....	276,546	96,643	3,159	1,105	50,602	14,444

Year	Other, dried scrap and meal		Total, scrap and meal		Fish solubles and homogenized condensed fish	
	Tons	Thousand dollars	Tons	Thousand dollars	Tons	Thousand dollars
1966.....	51,717	6,566	223,821	32,276	83,441	5,160
1967.....	57,075	6,687	211,189	26,038	74,675	4,588
1968.....	47,790	5,644	235,136	30,261	71,833	3,707
1969.....	59,738	8,579	252,664	39,823	81,692	4,123
1970.....	47,558	6,768	269,197	46,353	94,968	4,946
1971.....	37,340	4,982	292,812	44,501	111,188	5,046
1972.....	43,213	6,349	285,506	48,289	134,395	5,728
1973.....	50,639	19,792	287,517	119,905	137,435	15,446
1974.....	45,420	11,140	300,714	84,380	137,259	11,730
1975.....	58,198	12,094	290,431	65,545	127,850	8,753
1976.....	52,744	13,629	309,694	96,815	133,107	14,257
1977.....	47,501	14,107	282,291	97,239	122,330	13,945
1978.....	32,603	9,015	362,910	121,207	162,543	22,303

Year	Menhaden oil		Herring oil		Tuna and mackerel oil	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1966.....	144,198	10,982	7,882	585	4,111	303
1967.....	101,384	4,736	5,676	307	5,218	268
1968.....	152,020	6,247	9,533	376	4,549	163
1969.....	149,155	8,253	3,484	217	4,256	132
1970.....	186,283	16,833	5,437	328	3,534	168
1971.....	244,040	19,249	5,856	488	4,933	255
1972.....	166,956	11,563	5,064	481	5,030	272
1973.....	200,489	23,051	1,724	238	7,396	494
1974.....	217,045	46,060	(1)	(1)	6,819	810
1975.....	213,271	29,182	1,598	161	6,444	691
1976.....	186,400	28,910	2,075	356	6,340	554
1977.....	116,149	25,132	440	96	3,807	395
1978.....	284,031	58,711	1,341	268	4,358	455

See footnotes at end of tables.

(Continued on next page)

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE (F51)
 Washington, D.C. 20235

POSTAGE AND FEES PAID
 U.S. DEPARTMENT OF COMMERCE
 COM-210



OFFICIAL BUSINESS

FIRST CLASS MAIL

PRODUCTION OF INDUSTRIAL FISHERY PRODUCTS, 1966-1978 - Continued

Year	Whale and sperm oil		Other marine animal oil		Total oil	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1966.....	1,365	81	6,489	528	164,045	12,480
1967.....	2,483	147	7,637	653	122,398	6,112
1968.....	2,394	116	5,576	425	174,072	7,327
1969.....	1,736	104	11,154	620	169,785	9,326
1970.....	680	46	10,150	809	206,084	18,185
1971.....	418	40	10,203	799	265,450	20,831
1972.....	-	-	11,395	801	188,445	13,117
1973.....	-	-	15,025	1,781	224,634	25,563
1974.....	-	-	14,116	2,345	237,980	49,216
1975.....	-	-	24,340	2,569	245,653	32,603
1976.....	-	-	9,766	1,336	204,581	31,156
1977.....	-	-	12,786	2,616	133,182	28,239
1978.....	-	-	6,557	1,277	296,287	60,701

Year	Oyster and marine clam shell lime and grit	Freshwater mussel shell products	Marine pearl shell buttons	Other industrial products	Grand total	
	Tons	Thousand dollars				
1966.....	334,212	4,315	(3)	816	17,925	72,972
1967.....	311,367	4,144	(3)	789	19,356	61,027
1968.....	239,798	3,572	(3)	1,078	24,182	70,127
1969.....	207,332	3,329	(3)	841	25,562	83,005
1970.....	204,037	3,409	(4)	(4)	26,646	99,540
1971.....	228,605	4,128	(4)	(4)	32,046	106,551
1972.....	221,711	4,210	(4)	(4)	84,639	155,982
1973.....	207,922	4,015	-	(4)	37,898	202,828
1974.....	207,576	4,651	-	(4)	48,858	198,834
1975.....	272,852	5,847	-	(4)	49,550	162,297
1976.....	268,013	6,085	-	(4)	36,437	184,750
1977.....	263,652	6,708	-	(4)	44,441	190,572
1978.....	141,873	4,465	-	(4)	42,247	250,923

(1) Included with other oils. (2) Includes the value of pearl shell novelties. (3) Included with marine pearl shell buttons. (4) Included with other industrial products.

Note:—Totals are correct. Data may not add due to rounding.